

JUN 17 2008

Application No.: 10/826,599

Docket No.: MWS-081RCE

AMENDMENTS TO THE CLAIMS

1. (currently amended) In a graphical modeling environment, a method comprising:
receiving a user request to define a property parameter or a setting for of a component block in of a simulatable block diagram model;
in response to the user request, generating a preview of code representative of the code for the component block of the block diagram model prior to generation of code for the simulatable block diagram model; and
displaying the preview of the code on a graphical user interface.
2. (currently amended) The method of claim 1, wherein the receiving the user request to define the property parameter or the setting for the component block comprises receiving a parameter the parameter or the setting via the graphical user interface.
3. (currently amended) The method of claim 2, wherein the preview of the code is displayed on the graphical user interface that receives the parameter or the setting.
4. (currently amended) The method of claim 1, wherein the preview of the code comprises a subset of corresponding code for the component block.
5. (currently amended) The method of claim 4, wherein the subset of code corresponds to the property parameter or the setting.
6. (previously presented) The method of claim 1, wherein generating the preview of the code comprises:
generating an estimation of the code using a predictor mechanism.
7. (currently amended) The method of claim 1, wherein generating the preview of the code comprises:
generating code corresponding to the component block using an execution engine.

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8. (currently amended) The method of claim 1, wherein the preview of the code comprises a symbolic, non-literal representation of code corresponding to the component block.
9. (currently amended) The method of claim 1, wherein the preview of the code comprises pseudo-code.
10. (currently amended) The method of claim 1, wherein ~~the generating and the displaying~~ the preview of the code execute in real-time after receiving the user request.
11. (currently amended) The method of claim 1, further comprising altering the ~~property parameter or the setting~~ for the component block after the displaying of the preview of the code.
12. (currently amended) The method of claim 11, further comprising:
generating code representing the altered ~~property parameter or the altered setting~~; and
displaying the code representing the altered ~~property parameter or the altered setting~~ on the graphical user interface.
13. (currently amended) The method of claim 1, further comprising altering a second ~~property parameter or a second setting~~ in the block diagram model after the displaying of the preview of the code.
14. (currently amended) The method of claim 12, further comprising:
generating code representing the altered second ~~property parameter or the altered second setting~~; and
displaying the code representing the altered ~~property second parameter or the altered second setting~~ on the graphical user interface.
15. (canceled)
16. (currently amended) The method of claim 1, further comprising:
receiving the ~~property parameter or the setting~~ via a dialog box associated with the ~~component in the form of a parameter for the component block~~.

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17. (original) The method of claim 16, wherein the dialog box includes a code preview field for displaying the code.

18. (currently amended) The method of claim 1, wherein ~~the generating of the preview of the code representative of the component of the block diagram model and the displaying of the~~ preview of the code on the graphical user interface are executed automatically in response to the user defining the property parameter or the setting.

19. (currently amended) In a graphical modeling environment, a method comprising:
automatically updating a preview of code representative of code for a setting of a
~~component block in~~ a simulatable block diagram model in response to a user altering the a
parameter or a setting of the block; and
displaying the updated preview of the code on a graphical user interface.

20. (previously presented) The method of claim 19, further comprising:
receiving the altering of the setting via the graphical user interface.

21. (previously presented) The method of claim 19, wherein the graphical user interface displays the updated preview of the code in real time after the altering of the setting.

22. (previously presented) The method of claim 19, further comprising:
receiving a cancellation of the altering of the setting after displaying the updated preview of the code.

23. (currently amended) A computer-readable storage medium for use with an electronic device having a processor, the medium storing instructions executable by the processor of the electronic device, the medium storing:

one or more instructions for receiving a user request to define a property parameter or a
setting for of a component block in a simulatable block diagram model;

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one or more instructions for generating a preview of code representative of code for the component-block in the block diagram model prior to generation of code for the block diagram model, in response to the user request; and

one or more instructions for displaying the preview of the code on a graphical user interface.

24. (currently amended) A computer-readable storage medium for use with an electronic device having a processor, the medium storing instructions executable by the processor of the electronic device, the medium storing:

one or more instructions for automatically updating a preview of code representative of code for a setting of a component of block in a simulatable block diagram model in response to a user altering the a parameter or a setting of the block; and

one or more instructions for displaying the updated preview of the code on a graphical user interface.

25. (currently amended) A system for generating and displaying a graphical programming application, comprising:

user-operable input means for inputting data to the graphical programming application;

a display device for displaying a simulatable block diagram model; and

an electronic device including memory for storing computer program instructions and data, and a processor for executing the stored computer program instructions, the computer program instructions including instructions for providing a code preview to a user on the display device, wherein the code preview displays a preview of code representative of code for a component of block in the simulatable block diagram model after the user defines a property of the component-block using the user-operable input means, and the preview of the code being created by generating an estimation of the code for the block using a predictor mechanism.

26. (original) The system of claim 25, wherein the input means comprises a graphical user interface displayed on the display device.

27. (original) The system of claim 26, wherein the graphical user interface includes a field for displaying the code preview.

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28. (currently amended) A system for generating and displaying a graphical programming application, comprising:

user-operable input means for inputting data to the graphical programming application;
a display device for displaying a simulatable block diagram model; and
an electronic device including memory for storing computer program instructions and data, and a processor for executing the stored computer program instructions, the computer program instructions including instructions for automatically updating a preview of code representative of code for a setting for a ~~component block~~ in the simulatable block diagram model in response to the user altering the setting and displaying the updated preview of the code, and receiving a cancellation of the altering of the setting after displaying the updated preview of the code.

29. (original) The system of claim 28, wherein the input means comprises a graphical user interface displayed on the display device.

30. (original) The system of claim 29, wherein the graphical user interface includes a field for displaying the updated code.